IBM

IBM T. J. WATSON RESEARCH CENTER
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September 10, 2008

To Whom It May Concern:

This is to certify that Dr. Dong Kam has worked full time (40 hours/week) as a Postdoctoral Researcher from May 23, 2007 to August 15, 2008, and has been working full time (40 hours/week) as a Research Staff Member since August 16, 2008 at the IBM Thomas J. Watson Research Center, Yorktown Heights, New York, and is still actively employed in that position. During this period, both Dr. Kam and I have belonged to the same department, and I am currently his manager.

Dr. Kam's research has been in the area of signal integrity design and analysis for high-speed I/O subsystems. One of the projects he has been working on involves link-level analysis and optimization for high-speed and high-density on-board links. More specifically, Dr. Kam investigated practical distance and speed limits for electrical and optical module-to-module on-board links including state-of-the-art circuit and packaging technologies. Hardware-validated models of advanced organic modules and printed circuit boards were used to explore these limits. Simulation of link performance performed with an internal link modeling tool based on his link model allowed us to explore the effect of equalization and modulation formats at different data rates on link bit error rate and eye opening. The System Technology Group as well as many other groups in IBM will benefit from this work.

Dr. Kam has also contributed to the standardization activity of OIF, the only industry group uniting representatives from data and optical networking disciplines. He has actively participated in technical discussions for signaling convention, Tx/Rx equalization, reference channel models, and link-level simulation. He provided technical basis and insights to the Physical and Link Layer (PLL) Working Group in OIF, and played a pivotal role in establishing the CEI-25 standard.

Dr. Kam is currently making pioneering contributions towards the research of millimeter wave (~60 GHz) antenna-in-package development. As the package plays a key role in the overall system performance and cost, the significant of Dr. Kam's research cannot be overemphasized.

Dr. Kam's aforementioned contributions have resulted in 1 journal paper, 4 conference papers, and 1 Best Paper Award to date.

Sincerely,

Brian A. Floyd 11/10/2008

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